



# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 23 नई विल्सो, शनिवार, जून 6, 1981 (ज्येष्ठ 16, 1903)

No. 23] NEW DELHI, SATURDAY, JUNE 6, 1981 (JYAIKTHA 16, 1903)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
Separate paging is given to this Part in order that it may be filed as a separate compilation

### भाग III—खण्ड 2

#### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE  
PATENTS AND DESIGNS  
Calcutta, the 6th June 1981

*APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017*

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

30th April, 1981

452/Cal/81. Shri S. R. Dwivedi, Shri R. R. Prasad, Shri S. K. Mukhopadhyay and Dr. M. Chakraborty. A process for the conversion of noncaking coals and lignites by solvent extraction with hydrogen to a product similar to caking coal.

453/Cal/81. Copes-Vulcan, Inc. Soot blower control system.

454/Cal/81. Wavin B. V. Plastics composition, additive composition and method of preparing an additive composition and plastics article. (February 3, 1981).

455/Cal/81. NRM Corporation Tire building machine.

456/Cal/81. Metals Technology & Instrumentation, Inc. Method of producing metals by cathodic dissolution of their compounds in electrolytic cells.

1st May, 1981

457/Cal/81. B. Sinha. Device for eliminating the vehicle wheel locking risk at braking. (May 1, 1980)

458/Cal/81. Amsted Industries Incorporated. Ferrous metal castings with high hardness inserts.

459/Cal/81. Stauffer Chemical Company. Urea pills having surface impregnation of certain thiocarbamate sulfoxides.

460/Cal/81. Compagnie Neerlandaise DE L'Azote (Societe Anonyme). A method of making granules built up from a core and an envelope.

2nd May, 1981

461/Cal/81. A. A. R. C. (Management) Pty. Limited. Thermoforming machine. (May 2, 1980).

462/Cal/81. Mitsubishi Chemicals, Inc. Novel 2-arylpropyl ether or thioether derivatives, processes for preparation thereof and insecticidal and acaricidal agents containing said derivatives.

463/Cal/81. D. K. Sinha. A new type of solar cooker.

464/Cal/81. D. K. Sinha. Spray air cooler.

465/Cal/81. S. A. Labaz N. V. Pyridoxine derivatives, process for preparing them and use in therapeutics.

4th May, 1981

466/Cal/81. VMEI "Lenin". Method and apparatus for pressworking of articles.

467/Cal/81. Generale Des Engrais S.A. Production of fertilizer containing ammonium phosphate.

468/Cal/81. Dr. N. Sinha. Establishment of automatic boiling compressor for use of compressor steam sprayer for spraying of pesticides in Agriculture or in Industries.

5th May, 1981

469/Cal/81. Ciba-Geigy AG. Guanidine derivatives, processes for their preparation, pharmaceutical preparations containing such compounds and the use thereof.

470/Cal/81 Montefiore Hospital and Medical Center. Binding assay for the detection of mycobacteria.

6th May, 1981

471/Cal/81. Mannesmann Aktiengesellschaft. Pressure-balancing device for blast furnaces operated with pressure in excess of atmospheric pressure, especially for large blast furnace.

472/Cal/81. Societe Lab. Improvements in industrial chimneys.

473/Cal/81. USV Pharmaceutical Corporation. Cyclic amides.

474/Cal/81. Mobil Oil Corporation. Conversion of syngas to dimethyl ether.

475/Cal/81. Dr. D. K. Roy. Process for producing 2 : 4-dichlorophenoxyethyl penicillin.

476/Cal/81. S. Roy. A process of manufacturing one piece rivetless picker for weaving looms.

477/Cal/81. Kubota, Ltd. Planting machine.

APPLICATIONS FOR PATENTS FILED AT THE  
PATENT OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002

29th April, 1981

82/Mas/81. V. Ravichandran. Boiler (scraper system).

83/Mas/81. V. Ravichandran. Three way valve.

84/Mas/81. V. Ravichandran. Four way valve.

30th April, 1981

85/Mas/81. Semac Pvt. Ltd.. A compression member.

86/Mas/81. Indian Institute of Technology. A cold glow plasma system.

1st May, 1981

87/Mas/81. T. A. P. Viiavan. An air cooling attachment for electric fans.

2nd May, 1981

88/Mas/81. Lucas Industries Ltd.. Improvements in disc brakes (May 9, 1980).

89/Mas/81. G. K. R. V. Rao. Ocean depth hydro electric power generation system.

ALTERATION OF DATE

148759. } Ante dated 25th August, 1976.  
339/Del/79 }

148760. } Ante dated 4th January, 1978.  
907/Del/79 }

148764. } Post dated 16th September, 1980.  
155/Del/78 }

148768. } Ante dated 29th August, 1978.  
445/Del/80. }

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 167C

Int. Cl. : E06c 5/00.

TRANSFER TROLIES FOR CARRYING AND SHIFTING AERATING MACHINE DURING COMPOSTING.

*Applicant :* TRACTEL TIRFOR INDIA PRIVATE LIMITED, 15, GANESH CHANDRA AVENUE, CALCUTTA-700 013, WEST BENGAL, INDIA.

*Inventor :* DR. PRADIP KUMAR CHAKRAVARTY.

Application No. 945/Cal/78 filed August 28, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A transfer trolley for carrying and shifting aerating machine over it comprising a self driven mobile trolley with locating device, the trolley being made of fabricated steel structure and mounted on two pairs of wheels and axles movable on a pair of rail fixed on basement at right angles to the centre lines of the windrow bays, the said self driven device consisting of at least one sprocket firmly mounted on one of the axle of the trolley and coupled by means of a roller chain with a second sprocket mounted on a separate shaft held at a height and supported by the trolley structure, the said second sprocket being rigidly attached with a handle for rotation of the same for driving the trolley and the said locating device consists of a vertically movable taper bar provided at least on one side of the trolley, the taper bar being operable up and down by means of a handle for insertion into holes provided on the floor at regular intervals.

Comp. Specn. 7 Pages.

Drg. 1 sheet.

CLASS 158E<sub>2</sub>

148753.

Int. Cl. : B61f 5/08.

IMPROVEMENTS IN OR RELATING TO SPRINGS.

*Applicant :* DUNLOP LIMITED, OF DUNLOP HOUSE, RYDER STREET, ST. JAMES'S, LONDON, S.W.1., ENGLAND.

*Inventor :* REGINALD HARRISON.

Application No. 1298/Cal/77 filed August 19, 1977.

Convention date August 28, 1976/(3589876) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A spring comprising a layer of elastomeric material bonded to interleaving metal plates, the length of the layers of elastomeric material as considered in at least one cross-sectional plane extending substantially perpendicular to the plane of the layers of elastomeric material and metal plates being less at layers between the outermost layers than at the outermost layers and the thickness of the layers of elastomeric material being less at layers between the outermost layers than at the outermost layers.

Comp. Specn. 8 pages.

Drg. 1 Sheet.

CLASS : 32F<sub>4</sub>b & 55D<sub>4</sub>

148754

Int. Cl : C07d 91/54.

A PROCESS FOR THE MANUFACTURE OF 1, 2, 3-THIADIAZOLE-5-CARBOXYLIC ACID DERIVATIVES.

*Applicant* : SCHERING AKTIENGESELLSCHAFT, OF BERLIN AND BERGKAMEN, FEDERAL REPUBLIC OF GERMANY.

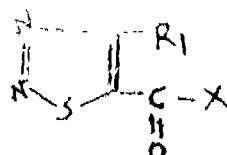
*Inventors* : DR. FRIEDRICH ARNDT, DR. HANS-RUDOLF KRUGER AND DR. REINHART RUSCH.

Application No. 402/Del/78 filed May 29, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

71 Claims.

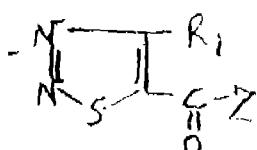
A process for the manufacture of a compound of the general formula I.



in which R<sub>1</sub> represents a hydrogen atom or an C<sub>1</sub>-C<sub>6</sub> alkyl group which may be interrupted by at least one atom selected from oxygen and sulphur atoms and/or may be substituted by at least one halogen atom, and X represents a group of the formula -Y-R<sub>2</sub>, in which R<sub>2</sub> represents a hydrogen atom, an unsubstituted or substituted C<sub>1</sub>-C<sub>6</sub> alkyl group, an unsubstituted or substituted phenyl group, an unsubstituted or substituted phenyl-C<sub>1</sub>-C<sub>6</sub> alkyl group or a monovalent metal equivalent and Y represents an oxygen or sulphur atom, or X represents a group of the formula shown in Figure I.



in which R<sub>3</sub> and R<sub>4</sub> each represents a hydrogen atom, an unsubstituted or substituted C<sub>1</sub>-C<sub>6</sub> alkyl group, a C<sub>5</sub>-C<sub>6</sub> alkenyl or -alkynyl group, an unsubstituted or substituted C<sub>1</sub>-C<sub>6</sub>-cycloaliphatic hydrocarbon group or an unsubstituted or substituted aryl group, or R<sub>3</sub> and R<sub>4</sub> together with the adjacent nitrogen atom represent a morpholino, piperidino or pyrrolidino group, which a 1, 2, 3-thiadiazole-5-carboxylic acid halide of the general formula III.

CLASS 76E & 157D<sub>4</sub>C

148755.

Int. Cl : E01b 9/08.

SPRING STRIP FOR AN ELASTIC RAIL SPIKE.

*Applicant* : HOESCH WERKE AG, HAUPVERWALTUNG EBERHARDSTRASSE 12, 4600 DORTMUND, WEST GERMANY.

*Inventors* : ING. PETER DAHLHAUS AND ING. (GRD). WILHELM STRIEPEKE.

Application No. 222/Cal/78 filed March 1, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims.

Spring strip for an elastic rail spike with shanks produced by folding the spring strip back on itself at the spike tips, angled or horizontally, with bridges resting against the rail flange with their narrow side and with the spring strip ends being approximately circularly in the shape of eyes in the direction of the rail, resting on the rail flange and holding it down, characterized by that the said spring strip is of a rectangular cross-section with rounded edges.

Comp. Specn. 2 pages.

Drg. 1 sheet.

CLASS 34C &amp; 40F

148756.

Int. Cl : B01d 13/04.

A METHOD OF PREPARING SEMI-PERMEABLE POLYMERIC MEMBRANES HAVING ENHANCED SELECTIVITY.

*Applicant* : MONSANTO COMPANY, OF 800 NORTH LINCOLN BOULEVARD, ST. LOUIS, MISSOURI-63160 U.S.A.

*Inventors* : RICHARD CHI-CHENG CHANG AND ROBERT ROD WARD.

Application No. 392/Cal/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A method of preparing semi-permeable polymeric membranes having enhanced selectivity and having a barrier layer with pores therethrough said membrane being resistant to biodegradation characterized in that said membrane is stored in a substantially bacteriostatic aqueous medium at temperature from 10 to 40°C for a time sufficient to obtain growth of microorganisms as hereinafter described.

Comp. Specn. 36 pages.

Drg. 1 sheet.

CLASS 9F

148757.

Int. Cl : C22c 39/54, C23d 5/00.

PROCESS OF PRODUCING AN ELECTRICALLY INSULATIVE GLASS FILM ON SILICON STEEL.

*Applicant* : ARMCO STEEL CORPORATION, AT 703 CURTIS STREET, MIDDLETOWN, OHIO, U.S.A.

*Inventor* : MICHAEL HARRIS HASELKORN.

Application No. 338/Del/78 filed May 8, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

11 Claims.

A method of improving the core loss characteristics of cube-on-edge oriented silicon steel strip and sheet stock which will have a magnetic permeability greater than 1850 at 796 A/m after a final, high temperature anneal in a reducing atmosphere, which comprises adding a boron compound to an aqueous magnesia slurry, applying said slurry to the surfaces of said stock and drying the so applied coating prior to said final anneal, characterized by adding said boron compound to provide a total boron content within the range of 0.07% to 0.30%, based on the weight of magnesia, in inverse proportion to the bulk density of the dried coating, whereby to cause a uniform amount of boron to diffuse inwardly through said magnesia coating during said final anneal, irrespective of the amount of boron volatilized into the annealing atmosphere from said coating.

Comp. Specn. 27 pages.

Drg. 2 sheets.

CLASS 24D, &amp; 129P

148758.

Int. Cl : B 23 q 5/00.

HYDRAULICALLY OPERATED DISC TYPE BRAKE FOR SPINDLES OF MACHINE TOOLS.

*Applicant* : HINDUSTAN MACHINE TOOLS LTD., 36, CUNNINGHAM ROAD, BANGALORE-560052, KARNATAKA.

*Inventors* : (1) VIRAVANALLUR SUNDARAM MURALI

(2) PALAMOLY CHALIYADETH SASIDHARAN NAIR

(3) PANDOMPATOM RADHAKRISHNAN.

Application No. 160/Mas/78 filed September 14, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

1 Claim.

A hydraulically operated disc type brake for spindle of machine tools comprising a housing fixed to the headstock, a piston one end of which is enlarged to get a large surface area for effective braking, the said piston moving inside a cylinder in the housing under hydraulic oil pressure and returning by spring actuation, a flange both sides of which are covered by friction lining material, the said flange being mounted on the shaft to be braked, a rear flange fixed to the headstock, the braking being effected whenever required by allowing oil under pressure inside the said cylinder to move the said piston which presses the said flange between the said rear flange and the said piston.

(Com.—3 pages, Drawing—1 sheet of size 33.00 cms×41.00 cms.)

CLASS 24F

148759.

Int. Cl. : B60t 7/00.

AN IMPROVEMENT IN A VEHICLE BRAKING SYSTEM.

*Applicant* : ASPRO, INC., OF THE RIVERSIDE BUILDING, WESTPORT, CONNECTICUT 06880, UNITED STATES OF AMERICA.

*Inventor* : CARMELI ADAHAN.

Application No. 339/Del/79 filed May 16, 1979.

Division of application No. 1568/Cal/76 filed August 25, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

9 Claims.

In a vehicle braking system including a plurality of wheels having wheel brake cylinders, respectively, and master cylinder means for supplying fluid simultaneously to said wheel cylinders for braking the vehicle, the improvement which comprises :

(a) at least two normally de-activated pumping means connected between said master cylinder and at least two of said wheel cylinders, respectively, each of said pumping means including :

(1) a valve body containing a pumping chamber communicating both with an inlet port connected with said master cylinder and an outlet port connected with one of the wheel cylinders, said valve body also including a normally open by-pass passage connected between said inlet and outlet ports to bypass the pumping chamber;

(2) first check valve means normally isolating said outlet port from said pumping chamber, and second check valve means normally isolating said pumping chamber from said inlet port;

(3) a reciprocatory pumping member extending at one end in said pumping chamber;

(4) main solenoid means for reciprocating said pumping member, said main solenoid means including (a) a stator connected with the valve body; (b) a

movable armature connected with the other end of said pumping member for linear movement between first and second end positions relative to said stator; and (c) main spring means biasing said armature toward one of said end positions;

(5) by-pass control means for closing said by-pass passage; and

(6) means for alternately energizing and de-energizing said solenoid means, thereby to reciprocate said pumping member, whereby when said by-pass passage is in the closed condition, fluid is pumped from said inlet port to said outlet port;

(b) wheel speed sensing means associated with at least the said two wheel cylinders; and

(c) speed-responsive means operable when the rotational velocity of at least one of the wheels deviates from a given value for selectively operating to the closed condition the by-pass control means of at least one of said pumping means and for operating the main solenoid means associated therewith, thereby to pump fluid to the associated wheel cylinder to effect braking of the associated wheel.

Comp. Specn. 22 pages.

Drgs. 3 sheets.

CLASS : 32F,a & 40F

148760.

Int. Cl. : C07c 65/00, 69/00, B01j 1/00.

METHOD FOR THE PRODUCTION OF A MIXTURE OF BENZYL-ALCOHOL AND A BENZAMIDE FROM A TAR CONTAINING BENZYL BENZOATE.

*Applicant* : STAMICARBON B.V., OF GELEEN, THE NETHERLANDS, P.O. BOX 10.

*Inventor* : CORNELIS JONGSMA.

Application No. 907/Del/79 filed December 18, 1979.

Division of Application No. 5/Del/78 filed January 4, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims. No drawings.

Method for the production of a mixture of benzylalcohol and a benzamide from a tar containing benzyl benzoate, characterized in that the tar is subjected to a hydrolysis reaction by treating the tar with ammonia or an amine at a temperature between 30 and 200°C and recovering the mixture of benzylalcohol and the benzamide by a method as herein described from the obtained reaction mixture.

Comp. Specn. 5 pages.

Drgs. Nil.

148761.

CLASS 27B

Int. Cl. : E04th 12/00.

A TOWER.

*Applicant & Inventor* : NRIPENDRANATH CHAKRAVARTI, OF M/132, GREATER KAILASH II, NEW DELHI-110048, INDIA.

Application No. 479/Del/77 filed December 17, 1977.

Complete Specification left September 25, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

5 Claims.

A tower made of metallic material, such as steel, and capable of carrying transmission and communication cables, said tower being of a square or rectangular cross section consisting of vertical members and bracing members and such that the tower has a tapering shape towards the top characterised in that the bracing members for at least two sides of the tower are of equal lengths and held at varying lengths of the vertical members.

Prov. Specn. 5 pages

Complete Specification 8 pages

Drawing 1 sheet.

CLASS 33D

148762.

Int. Cl : B22d 37/00, 11/10.

A NOZZLE FOR PREVENTING ALUMINA BUILD-UP DURING CONTINUOUS CASTING OF ALUMINUM-KILLED STEEL.

*Applicant* : USS ENGINEERS AND CONSULTANTS, INC., AT 600 GRANT STREET, PITTSBURGH, STATE OF PENNSYLVANIA, UNITED STATES OF AMERICA.

*Inventors* : EUGENE ALOYSIUS GOLAS AND SHRI NATH SINGH.

Application No. 1227/Cai/77 filed August 8, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims.

A nozzle for preventing alumina build-up during continuous casting of aluminum-killed steel, comprising a body having a bore therethrough defining the pour passage for said molten metal, a flat disc-like member coaxially disposed with respect to said bore and extending transversely of the axis thereof, and a through-opening in said member concentrically spaced from the wall of said bore, said member having a thickness no greater than about twice the diameter of said through-opening and possessing a planar surface whose diameter is no less than about 1.4 times the diameter of said through-opening, said member being located intermediate the inlet and discharge ends of said bore and sufficiently spaced from said inlet end to cooperate with the wall of said bore to define a region of relative stagnation of the molten metal flowing therethrough.

Comp. Specn. 14 pages.

Drg. 1 sheet.

CLASS 64B:

148763.

Int. Cl : H01r 15/06.

## PLUG AND SOCKET COUPLINGS.

*Applicant* : BHARAT HEAVY ELECTRICALS LTD, AT 18-20, KASTURBA GANDHI MARG, NEW DELHI-110001, INDIA.

*Inventors* : VINOD SAPRE, BISHWAROOP SEN AND HARI ANANT GHANEKAR.

Application No. 17/Del/78 filed January 7, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

12 Claims.

A plug and socket coupling having (1) a socket comprising a plurality of segmental shaped contact fingers arranged circularly and individually loaded by springs and adapted to receive plug rod of the plug portion, the contact fingers being secured to an annular contact base through laminated springs of a conductive material, the contact base being conductively secured to a cable terminal, the contact fingers and the contact base being housed in a shroud open at both ends, the cable terminal being housed in a second shroud open at both ends, both the said shrouds being secured to opposite sides of socket base, and (2) a plug comprising a holder to which the plug rod is secured, the plug rod being connected to a cable terminal on the opposite side of the holder, the plug rod and the cable terminal being housed within a plug terminal cover and a plug shroud, the said cover and shroud being secured to the said plug holder on opposite sides the plug shroud being of larger diameter than the said second shroud of the socket, and being adapted to be fitted over the said second shroud while the plug and the socket are connected together.

Comp. Specn. 11 pages.

Drg. 1 sheet.

CLASS 62C<sup>1</sup> & C

148764.

Int. Cl : D06p 1/20, 1/24.

PROCESS FOR THE PRODUCTION OF NOVEL DYE-STUFFS.

*Applicant* : BAYER AKTIENGESELLSCHAFT, OF LEVRUKUSEN, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : GUNTER GEHRKE AND WALTER HOHMANN.

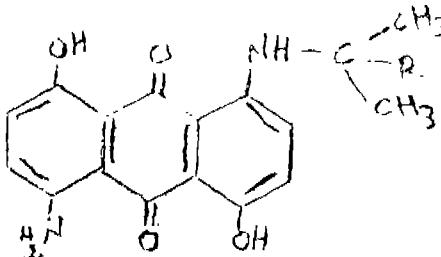
Application No. 155/Del/78 filed February 27, 1978.

Post dated 16th Sept., 1980.

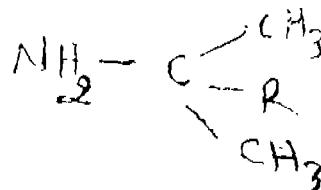
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

2 Claims.

Process for the production of 1-alkylamino-5-amino-4, 8-dihydroxy-anthraquinones of the formula II.



wherein R is hydrogen or CH<sub>3</sub> which comprises reacting 1, 5-dinitro-4, 8-dihydroxy anthraquinone with an amine of the formula III.



wherein R has the meaning stated above and subsequently reducing by methods known *per se* the remaining nitrogroup.

Comp. Specn. 9 pages.

Drg. 1 sheet.

CLASS 32Fb

148765.

Int. Cl : C07c 73/10.

PROCESS FOR THE MANUFACTURE ACIDS OF PEROXYCARBOXYLIC ACIDS.

*Applicant* : FMC CORPORATION, AT 2000 MARKET STREET, PHILADELPHIA, PENNSYLVANIA 19103, UNITED STATES OF AMERICA.

*Inventor* : SIDNEY BERKOWITZ.

Application No. 183/Del/78 filed March 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims. No drawings.

In a process for the manufacture of a peroxycarboxylic acid in crystalline form by the oxidation in aqueous phase of a carboxylic acid with hydrogen peroxide, the improvement which comprises: conducting the reaction in the presence of a strong acid selected from the group consisting of oleum, sulfuric acid, trifluoromethanesulfonic acid, methane-sulfonic acid and toluenesulfonic acid, the amount of said strong acid being in the range of from 1.3 to 5 moles for each mole of said carboxylic acid present in the reaction mixture, and intimately dispersing throughout said aqueous phase a sufficient quantity of an inert, water-immiscible solvent for the peroxycarboxylic acid to selectively remove from said aqueous phase the peroxycarboxylic acid as it is formed and recovering the peroxycarboxylic acid by the method described herein.

Comp. Specn. 23 pages.

Drgs. Nil.

CLASS 23B	148766.	Division of Appln. No. 637/Del/78 filed August 29, 1978.
Int. Cl : B65d 5/02, 9/00.		Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.
AN IMPROVED CARDBOARD OR CORRUGATED CARDBOARD BOX.		2 Claims.
<i>Applicant &amp; Inventor</i> : RAJ KUMAR RAI, ANUPAM KUMAR RAI, SUNIT KUMAR RAI AND MRS. INDUMATI RAI, ALL OF 506, SHAKUNIALA, NEHRU PLACE, NEW DELHI, INDIA.		A device for pressing together the half-bodies obtained during the manufacture of multi-channel magnetic recording and/or playback heads with improved crosstalk attenuation properties comprising a nest for receiving at least one magnetic head; a pressing element; a self-aligning press body coupled axially to the pressing elements; supports on the face of said press body abutting to the side wall of the attached half-bodies placed in the nest; and supports in the nest providing precise location for the half-bodies in the nest.
Application No. 359/Del/78 filed May 11, 1978.		Complete specification 14 pages. Drawings 3 sheets.
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.		CLASS 61A, 185C 148769.
4 Claims.		Int. Class : A 23f, 3/00.
An improved cardboard or corrugated cardboard box consisting of sidewalls, endwalls and a base and cover member characterised in that the said end walls are made of a rigid material such as plywood and in which the said endwalls are held to the sidewalls and/or said base with strips of a flexible metal sheet or binding tapes so as to receive fasteners such as hails thereon.		METHOD AND APPARATUS FOR DRYING TEA AND TEA WHEN DRIED THEREBY.
Comp. Specn. 8 pages.	Drgs. 1 sheet.	<i>Applicants</i> : MYRON GRANT HAMPTON ENGLAND.
CLASS 37B	148767.	<i>Inventors</i> : HAMPTON HYRON GRANT, & MILLIN DAVID JOHN.
Int. Cl : B04b 5/00.		Application No. 514/Del/78 filed on 10th July, 1978.
CARTRIDGE UNIT FOR ROTATABLY MOUNTING AND DRIVING THE BASKET OF A HYDRAULICALLY DRIVEN BASKET CENTRIFUGE AND BASKET CENTRIFUGES INCORPORATING SAID UNITS.		Convention date July 12, 1977 (29123/77) U.K.
<i>Applicant</i> : THOMAS BROADBENT & SONS LIMITED, OF HUDDERSFIELD, HD1 3EA, WEST YORKSHIRE, ENGLAND.		Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.
<i>Inventors</i> : JOSEPH FENWICK JACKSON AND EDWARD MICHAEL COOPER.		23 Claims.
Application No. 433/Del/78 filed June 12, 1978.		A method of drying tea comprising moving tea to be dried through a drying chamber whilst directly primary drying air over the tea so that the moisture content of the tea falls as it moves progressively through the chamber, whilst the air becomes laden with moisture, directly exhausting a further portion of the laden air, and taking the remaining laden air and redirecting at least part of it over a portion of the tea being dried which is at early stage in the drying process and therefore has a relatively high moisture content, in order to assist the primary drying air in its drying of this portion of the tea.
Convention date June 30, 1977 (27325/77) U.K.		Complete Specification 19 pages. Drawings 3 sheets.
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.		CLASS : 24b. 24f. 148770.
9 Claims.		Int. Cls. : F. 16d. 69/00.
A cartridge unit for rotatably mounting and designing the basket of a hydraulically driven basket centrifuge, the cartridge unit comprising a spindle which is adapted to support said basket from below, a hydraulic motor adapted to rotate said spindle about a vertical axis, a cylindrical spindle casing, means journaling said spindle for rotation within said spindle casing about a vertical axis, said means including two bearing assemblies disposed independently of said hydraulic motor at upper and lower positions on the spindle, respectively, the hydraulic motor including a rotor which is disposed within a working chamber defined by said cylindrical spindle casing and which is rigidly attached to said spindle, and a stator which is rigidly attached to the lower end of said cylindrical spindle casing, with no additional journal bearings between said motor rotor and stator.		"PROCESS FOR THE MANUFACTURE OF FRICTION COMPONENTS."
Comp. Specn. 10 pages.	Drgs. 4 sheets.	<i>Applicants</i> : FERODO LIMITED.
CLASS 147. CE	148768.	<i>Inventors</i> : JOHN CHESTER.
Int. Cl. G. 11b-21/00.5/12.5/22		Application No. 566/Del/78 filed 01, August 1978.
A DEVICE FOR PRESSING TOGETHER THE HALF-BODIES OBTAINED DURING THE MANUFACTURE OF MULTI-CHANNEL MAGNETIC RECORDING AND/OR PLAY BACK HEADS.		Convention date : August 10, 1978 (33458) U.K.
<i>Applicants</i> : Budapesti Radiotechnikai Gyar of Budapest, III Polgar u. 8-10, Hungary, a company organised under the laws of Hungary.		Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.
<i>Inventors</i> : Gyula Jagfalvi, Istvan Pusztai, Sandor Stenczinger, Bela Torok and Karoly Rudasi.		14 Claims.
Application No. 445/Del/80 dated 17th June, 1980.		A process for the manufacture of friction components of the kind such as herein described, which comprises intimately mixing together in present by volume :
		(a) from 20 to 60% of thermoset binder of which more than 10% by volume of the mixture is a phenolformaldehyde resin,
		(b) from 10 to 35% of a fibre-based reinforcement which is a mixture of short lengths of steel fibre and/or short lengths of glass fibre and a conventional mineral reinforcing filler, and

(c) additional friction and wear modifiers and/or fillers such as herein described to complete the mixture,

compacting the mixture into the shape of desired friction component and subjecting the compacted shape to heat to cure the binder and produce the finished component.

Complete specification 11 pages.

CLASS 152-E., 127-A., 24-F 148771.

Int. Cls : F. 16.d 69/02.

#### PROCESS FOR THE MANUFACTURE OF FRICTION COMPONENTS.

*Applicants* : FERODO LIMITED U.K.

*Inventors* : JOHN CHESTER.

Application No. 567/Del/78 filed August 1, 1978.

Convention date : August 10, 1977 (33485/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

#### 8 Claims.

A process for the manufacture of a friction component of the kind such as herein described which comprises intimately mixing together a thermoset binder and a fibrous reinforcement wherein the resulting mixture consists of, in combination, a thermoset binder comprising a phenol-formaldehyde resin and making up 20 to 40% by volume of the mixture, of which at least half is said resin, the fibrous reinforcement consisting solely of short lengths of steel fibre in an amount of between 5 and 15% by volume of the mixture, and an inert mineral filler in an amount of 10% to 35% by volume of the moisture said filler not being a metal oxide, the balance of the mixture being friction and wear modifiers in an amount of up to 40% by volume of the mixture and compacting the mixture into the shape of the desired friction component and subjecting the compacted shape to heat to cure the binder and produce the finished Friction component.

Complete specification 8 pages.

CLASS : 152-E., 127.A., 24-F. 148772

Int. Cls : F. 16.d. 69/02.

#### PROCESS FOR THE MANUFACTURE OF FRICTION COMPONENTS.

*Applicants* : FERODO LIMITED.

*Inventors* : B. D. SWINBURN, DAVID TREVOR BARTRAM.

Application No. 571/Del/78 filed August 3, 1978.

Convention date : August 10, 1977 (33482/77.. 33483/ U.K.)

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, 3rd Floor Saraswati Marg, Karol Bagh, New Delhi-110005.

#### 13 claims.

A process for the manufacture of friction components of the kind such as herein described, which comprises intimately fillers and additives, the thermoset binder making up 15 to 40% by volume of the mixture at least half of the thermoset binder by volume being a thermosetting resin characterized in that as the only reinforcing fibres, the mixture contains mixture of an inorganic fibres which is a staple fibre selected from steel fibres, glass fibres, mineral wool fibres silica fibres and ceramic fibres of the alumina-silicate type with at least one organic fibre such as herein described which is in the form of a discrete reinforcing fibre or a pulp, the amount of inorganic fibre being in the range of 3 to 40% by volume of the mixture and the amount of the organic fibre being in the range of 3 to 20% by volume of the mixture, and compacting

the mixture into the shape of the desired friction component and subjecting the compacted shape to heat to cure the binder to produce the desired friction component.

Complete specification 13 pages.

CLASS 130-G

148773.

Int. Cls : C. 22.b 9/02.

#### IMPROVEMENTS IN A METHOD FOR CONTINUOUS MELTING AND REFINING METAL IN A ROTARY FURNACE AND AN APPARATUS THEREFOR.

*Applicants* : WILLIAM IYON SHEPWOOD.

*Inventor* : "IDEM"

Application No. 582/Del/78 filed August 07, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules 1972) Patents Office Branch, Municipal Market, Saraswati Marg, Karol Bagh, New Delhi-110005.

#### 12 Claims.

A method for continuous melting and refining metal in a rotary furnace in which a charge of liquid metal is confined within the furnace by retaining it behind an annular dam restriction of the discharge opening at the furnace discharge end; with the following steps:

(a) maintaining an enclosed pool of liquid metal within an enclosed chamber of an external withdrawal vessel proximate to the discharge end of said rotary furnace;

(b) siphoning the liquid metal from within the furnace into said enclosed chamber by externally applying a negative suction pressure within said enclosed chamber to withdraw said liquid metal through a siphon tube connecting from an inlet beneath the surface of said liquid metal confined within the furnace into said enclosed chamber;

(c) controlling the rate of metal flow into said pool by controlling the magnitude of said negative suction pressure; and

(d) allowing the metal to flow from said enclosed pool out and discharge concurrently from a submerged opening in said enclosed chamber under the influence of gravity, and this flow taking place at an average rate corresponding to the rate of withdrawal from the furnace through said siphon tube.

Complete specification 14 pages. Drawing 1 sheet.

#### OPPOSITION PROCEEDINGS

##### (1)

An opposition has been entered by the Director General, Research Designs & Standards Organisation to the grant of a patent on application No. 147963 made by Murugan & Sons.

##### (2)

An opposition has been entered by Scooters India Limited to the grant of a patent on application No. 147966 made by Shilowbhadrabha Banerjee.

##### (3)

An opposition has been entered by Kaveri Plastichem (Pvt.) Ltd., to the grant of a patent on application No. 148236 made by Rajendra Tikmani.

#### PATENTS SEALED

146840 146984 147274 147275 147351 147359 147455 147495  
147522 147533 147556.

#### AMENDMENT PROCEEDING UNDER SECTION 57

The amendments proposed by General Mills Chemicals, Inc., in respect of Patent application No. 145985 as advertised in Part III, Section 2 of the Gazette of India dated the 6th December, 1980 have been allowed.

**CHEMICAL INDUSTRY—LIST NO. XI**  
**COMMERCIAL WORKING OF PATENTED INVENTION**

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of patentees	Title of invention
1	2	3	4	5
1.	142657	30-10-1975	UOP INC; Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Improvements in a fluidized catalytic cracking process.
2.	142666	16-07-1974	WESTINGHOUSE ELECTRIC CORPORATION, Westinghouse Building, Gateway Centre, Pittsburgh, Pennsylvania, -15222, U.S.A.	High pressure laminate and method of making the same.
3.	142672	13-01-1975	NITTO BOSEKI COMPANY LIMITED, 1 Aza Higashi, Cronome, Fukushima, Japan.	Manufacturing glass fibres.
4.	142673	24-02-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Manufacture of a catalyst.
5.	142674	24-02-1975	Do.	Do.
6.	142675	24-02-1975	Do.	Do.
7.	142687	20-05-1975	RHONE-POULENC INDUSTRIES, 22 avenue Montaigne 75008 Paris, France.	Obtaining sodium bicarbonate from an affluent containing sodium hydroxide.
8.	142694	16-01-1975	CINCINNATI MILACRON CHEMICALS INC. Reading, State of Ohio, U.S.A.	Process for preparing an organotin halide mercaptide.
9.	142696	08-01-1976	C.S.I.R., Rafi Marg, New Delhi.	A process for the preparation of pure cholesterol from Buffalo and goat spinal cord.
10.	142700	04-11-1975	HALDOR TOPSOE A/S, P.O. Box 49, DK 2860, Soborgn, Denmark.	Process for preparing methane rich gases.
11.	142711	09-04-1974	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London, SW1P, 3JF, England.	A method of preparing a hard polymerised resin composition.
12.	142714	01-03-1975	AMERICAN HOME PRODUCTS CORPORATION, 685, Thbird Avenue, New York, USA.	Preparation of benzo bicycloalkane amines.
13.	142716	03-12-1974	HOECHST AG, 6230, Frankfurt/Main 80, FRG.	Process for preparing new hydroxypyridine carbonates.
14.	142727	22-08-1974	Do.	Preparation of new water soluble yellow reactive dyes.
15.	142735	17-12-1975	MCNEIL LABORATORIES, Camp Hill Road, Fort-Washington, Pennsylvania, USA.	Preparing substituted thiosulfinyl and sulfonyl-indoles.
16.	142738	11-06-1975	HINDUSTAN LEVER LIMITED, Hindustan Lever House, 165/166, Backbay Reclamation, Bombay 400 020.	Cosmetic composition.
17.	142753	31-03-1975	DR. C. OTTO & COMP GmbH, Bochum, West Germany.	Gasification of solid fuels.
18.	142757	08-02-1974	GIST-BROCADES NV, Wateringseweg 1, Delft, Holland.	Preparation of azetidine derivatives.
19.	142771	14-03-1975	F. L. SMIDTH & COMPANY A/S, 77, Vigerslev Alle, DK-2500, Copenhagen Valby, Denmark.	Method of and plant-for calcinating pulverous raw materials.
20.	142791	14-05-1975	DYNACHEM CORPORATION, Santa Ara, California, USA.	A process for protecting part on all of a substrate.
21.	142815	18-09-1975	UOP INC, Ten UOP Plaza—Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	A treating chamber and its use for the coating and impregnating of catalyst support members.

1	2	3	4	5
22.	142825	02-09-1974	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for the preparation of water-soluble monoazocompounds.
23.	142836	09-10-1975	KURARAY COMPANY LIMITED, 1621 Sakazu Karashiki City, Japan.	Production of substituted cyclopropane carboxylic esters.
24.	142846	22-04-1975	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Producing an improved catalytic material.
25.	142853	03-09-1975	UOP INC, Ten UOP Plaza-Algonquin & Mt. Prospect Road, Des Plaines, U.S.A.	A process for the dehydrogenation of hydrocarbons.
26.	142857	09-10-1975	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1P 3 TF; England.	Nitroparaffin explosive composition.
27.	142864	24-05-1975	BRISTOL—MYERS COMPANY, 345 Park Avenue, New York, State of New York 10022, U.S.A.	Process for the preparation of novel $\alpha$ -formyl- $\alpha$ -( $\alpha$ -acyloxyphenyl) acetamide phthalosporanic acids.
28.	142881	22-01-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for the continuous dyeing of cellulose fibers with reactive dyestuffs.
29.	142891	18-08-1976	ETHICON INC, Somerville, New Jersey, U.S.A.	Surgical adhesive tape.
30.	142896	09-10-1975	KOMMANDITGESELLSCHAFT SCHWARZHÄVPT, Sachsenring 37-47, 5 Köln 1, West Germany.	Preparing a composition for the conjoint determination of the isoenzyme of lactate dehydrogenase.
31.	142930	13-11-1975	MINNESOTA MINING AND MANUFACTURING COMPANY, 3M Centre Saint Paul, Minnesota, U.S.A.	Process for the preparation of 2 (trifluoromethyl) methane sulfonanilide substituted in the p-position and derivatives thereof.
32.	142935	28-04-1976	DR. C. OTTO & COMP GmbH, Bochum, West Germany.	Tubular reactor for preparing endothermal gas reactions.
33.	142944	10-09-1975	NUCHEM PLASTICS LIMITED, 20/6, Milestone Mathura Road, Faridabad, Haryana-121002, India.	Preparation of urea formaldehyde or melamine formaldehyde moulding powders.
34.	142975	14-10-1974	RHONE-PROGIL S.A., 25 Quai Paul-Doumer 92408, Courbevoie, France.	Preparation of aluminium hydroxy chlorides.
35.	143043	08-03-1976	COMBUSTION ENGINEERING INC, 1000 Prospect-Hill Road, Windscale Connecticut, U.S.A.	A hollow body such as pipe section of plastic material and method of manufacturing the same.
36.	143073	17-07-1975	1. JOHNSON & JOHNSON, 501, George Street, New Brunswick, New Jersey, U.S.A. 2. PURULATOR INC, 970 New Brunswick Avenue, Rahway, New Jersey, U.S.A.	A blood filter elements.
37.	143087	03-09-1974	RHONE-PROGIL S.A., 25 Quai Paul-Doumer, 92408, Courbevoie, France.	Process for oxyhalogenation of hydrocarbon and/or their derivatives.
38.	143091	12-03-1975	DR. C. OTTO & COMP, GmbH, 463 Bochum, West Germany.	A method of removing vapours and aerosols from gases produced during high temperature gasification and a plant for performing the method.
39.	143112	25-04-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for preparing copper phthalocyanine pigments of the $\alpha$ -modification.
40.	143116	17-10-1975	ISHIHARASANGYO KAISHA LIMITED, No. 11-1 Edobori Kamidori-Chome, Nishi-ku, Osaka-shi, Osaka, Japan.	Process for the preparation of $\alpha$ -(4-(substituted pyridyl-2-oxy) phenoxy) alkane carboxylic acids and derivatives thereof.
41.	143118	10-12-1975	ARBROOK INC, 2500 Arbrook Boulevard Arlington, Texas, U.S.A.	A disinfectant agent.
42.	143122	17-02-1976	AGRO PROTEINE INDUSTRIE, 11 Rue de Madrid, Paris 8 <sup>eme</sup> , France.	Integrated process for the treatment of vegetable matter.
43.	143123	08-08-1974	USS ENGINEERS AND CONSULTANTS, INC, 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Method of making iron oxide pellets.
44.	143126	17-10-1974	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Process for preparing 1-aminobenzene-5- $\beta$ -sulfatoethyl-sulfone-2, 4-disulfonic acid the 5-vinylsulfone compound and the alkali salts thereof.

1	2	3	4	5
45.	143128	07-05-1975	UOP INC; Ten UOP Plaza—Algonquin & Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	Hydrocarbon conversion process.
46.	143130	13-11-1975	UNITED TECHNOLOGIES CORPORATION, Hartford Connecticut, USA.	Method for catalyzing a fuel cell electrode.
47.	143135	18-09-1974	THE BOBTEX CORPORATION LIMITED, 1435 St. Alexander Street, Montreal, Quebec, Canada.	Manufacture of composite yarn products.
48.	143137	12-03-1975	NORSK HYDRO A. S., Bygdo Alle 2, Oslo 2, Norway.	Process for manufacturing of phosphoric acid containing calcium phosphate.
49.	143152	18-04-1975	HOLLANDSE SIGNAALAPPARATEN B.V., Zuidelijke Havenweg 40, Hengelo (O), The Netherlands.	Manufacture of twistless or substantially twistless yarn-and yarn so manufactured.
50.	143156	11-02-1976	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Alle, DK 2500 Valby, Copenhagen, Denmark.	Kiln plant and a method of preheating and calcining of raw material.
51.	143184	08-10-1976	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process for separation of dry particulate matter from a hot gas.
52.	143188	27-08-1974	UCB S.A., 4 Chausse de charleroi, Saint-Gilles-lez-Bruxelles, Belgium.	Method and apparatus for the continuous dehydration of maleic acid.
53.	143191	17-10-1974	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	New Process for the preparation of new water soluble azo dyestuffs.
54.	143192	22-10-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel van Bylandtlaan 30, The Hague, the Nether Lands.	A process for the preparation of silver catalysts for the production of ethylene oxide.
55.	143197	20-03-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Coating composition.
56.	143203	15-10-1973	ANHEUSER-BUSCH INC, 721 Peotolozzi Street, St. Louis, Missouri, U.S.A.	Process for the production of glucose isomerase.
57.	143222	31-10-1972	DEGUSSA, 9 Weissfra wen strasse, Frankfurt (Main), FRG.	Gas phase catalytic process for the manufacture of cyanogen chloride from chloride and hydrogen cyanide.
58.	143234	12-01-1976	VULCAN CINCINNATI INC., 2900 Vernon Place, Cin cinna ti, State of Ohio, U.S.A.	Process for making urea from ammonia and carbon dioxide.
59.	143236	28-09-1979	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	Hydrogen fluoride alkylation process.
60.	143243	22-07-1975	GENERAL ELECTRIC COMPANY, 1, River Road, Schenectady, New York, U.S.A.	Method of producing silicon iron sheet material.
61.	143246	26-06-1976	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	Process for producing adhesive tapes from thermoplastic elastomeric material.
62.	143255	03-09-1974	KAMYR INCORPORATED, Glens Falls, State of New York, U.S.A.	Producing gas from gas producing materials.
63.	143258	12-10-1976	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	A conditioning and cleaning shampoo composition non-irritating to eyes.
64.	143269	23-08-1975	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA, 1-8 Horidome-cho, Nihonbashi, Chou-ku, Tokyo, Japan.	Caustic alkali producing multiple verticle diaphragm type-electrolytic cell admittting of easy assembly.
65.	143271	13-08-1974	1. DAIZO KUNII, 1-25-16 Nakamachi, Meguro, Tokyo, Japan. 2. TAISEKI KUNUGI, 7-17-22-903, Poppong, Minato, Tokyo, Japan.	Continuous carbonization and gasification of particulate coal with double recirculation of fluidized particulate heat-carrier and an apparatus thereof.
66.	143272	28-10-1974	PFIZER INC, 235 East 42nd Street, New York, State of New York, U.S.A.	A method of preparing penam derivative.
67.	143274	29-03-1975	ANIC S.P.A. Via Mariano Stabile, 216 Palermo, Italy.	Synthesis of substituted indolenines.
68.	143277	15-10-1975	MERCK PATENT GmbH, Darm Stadt Frankfurt Strasse 250, FRG.	Rutile-containing lustrous pigments and process for producing the same.

1	2	3	4	5
69.	143279	07-01-1976	NORDISK INSULIN LABORATORIUM, Ved Stadion 2, DK 2820, Gentofte, Denmark.	Production of a stable insulin preparation with protracted action and low antigenicity.
70.	143287	22-04-1975	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Surface modifying of metal oxide catalysts.
71.	143291	13-05-1975	SHELL INTERNATIONALE RESEARCH MAASCHAPPIJ B.V. Carl Van Bylandtlaan 30, The Hague, The Netherlands.	Gasification of finely divided fuels.
72.	143292	19-05-1975	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Separating butadiene from C4 hydrocarbon streams.
73.	143296	23-06-1975	UOP INC; Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Manufacture of hydrodesulfurisation catalyst.
74.	143298	23-11-1973	PFIZER INC; 235 East 42nd Street, New York, State of New York, U.S.A.	Preparing prostaglandin intermediates.
75.	143315	18-03-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of new water-soluble naphthyl monoazo-pyrazolene dyestuffs.
76.	143322	12-01-1977	C.S.I.R., Rafi Marg, New Delhi.	Production of a new coumarin having spasomolytic properties from aerial parts of the plant clausena pentaphylla (Roxb) D.C.
77.	143334	19-11-1975	Do.	Process for extraction of nickel and cobalt values from lateritic acid limoniticnickeliferous ores.
78.	143335	28-01-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of pure aromatic o-hydroxy carboxylic acids.
79.	143341	17-09-1975	AUSTRALIAN FERTILIZERS LIMITED, 213 Miller Street, North Sydney, in the state of New South Wales, Australia.	Production of granular ammonium sulphate.
80.	143352	29-10-1975	FERTILIZER CORPORATION OF INDIA LIMITED, P-43 Ring Road, South Extension Area, Part I, New Delhi-49.	Process for the manufacture of gypsum plaster.
81.	143354	29-07-1976	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemicals House, Millbank, London, SW1P3 TF England.	Manufacture of hydroxy acids.
82.	143365	18-06-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of water soluble monoazo compounds.
83.	143374	24-10-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Reactive dyeing and printing of fibres materials, containing hydroxy groups.
84.	143376	05-12-1975	METALLGESELLSCHAFT AG, 16, Frankfurt A. M. Reuterweg 14, West Germany.	A method for production of heat by combustion of carbonaceous materials.
85.	143381	21-12-1974	PERSONAL PRODUCTS COMPANY, Miltown New Jersey, U.S.A.	Aldehydic polysaccharide dressings for absorbing body fluids.
86.	143382	18-04-1975	METALLGESELLSCHAFT AG, 16, Frankfurt, A. M. Reuterweg 14, West Germany.	Production of purified hydrogen and carbon monoxide containing gas.
87.	143384	18-08-1975	MOBIL OIL CORPORATION, 150 East 42nd Street, New York 10017, U.S.A.	Production of six to eight carbon atom aromatic compounds.
88.	143385	18-08-1975	Do.	An improved method for producing aromatic hydrocarbons having eight carbon atoms.
89.	143386	10-11-1975	TEXACO DEVELOPMENT CORPORATION, 135 East 42nd Street, New York, New York-10017, U.S.A.	Production of ethers.
90.	143388	09-06-1976	THE LUBRIZOL CORPORATION, P. O. Box 17100, Euclid Station, Cleveland, Ohio, 44117, U.S.A.	A composition for causing swelling of seals.
91.	143397	14-05-1976	TUOMO HALONEN OY, 37800 Toijala, Finland.	Uniformly heating a flowing substance, such as a liquid or gas.
92.	143403	19-02-1975	CHINOIN GYOGYSZER-ES VEGYESZETI TERMEKEK GYARA RT, 1-5 to u Budapest IV Hungary.	Preparing new acylphenoxy propanesulfoacids and salts thereof.

1	2	3	4	5
93.	143419	13-04-1977	METALLURGICAL & ENGINEERING CONSULTANTS (INDIA) LIMITED, Ranchi-834002, Bihar.	Improved process and plant for treating acidic wastes.
94.	143423	01-05-1974	E. I. DV PONT DE NEMOURS & COMPANY, Wilmington, Delaware, USA.	Hydrometallurgical process to recover copper from sulfide ore concentrates.
95.	143438	15-01-1975	ANSTALT GEMASS, Vaduz, Liechtenstein.	Method of continuous hydrolysis of pentosane containing material and apparatus for implementing the method.
96.	143457	02-01-1975	MONSTANO COMPANY, 800 North Lindbergh Boulevard, St. Louis, Missouri 63166, U.S.A.	Process of producing styrene from toluene.
97.	143469	19-11-1974	C. S. I. R., Rafi Marg, New Delhi.	A process for the production of barium/calcium petroleum sulphonates useful as detergent dispersant additives for motor oils.
98.	143470	27-06-1975	KARL KIENER, 7081 Goldshore, Gstaabkreis, West Germany.	Production of combustible gas from waste material.
99.	143477	19-04-1975	CATERPILLAR TRACTOR COMPANY 100 N.E. Adams Street, Peoria, Illinois-61602, U.S.A.	Method for manufacturing wear resistant alloy.
100.	143503	19-08-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of easily dispersible phthalocyanine pigments of the $\beta$ -modification.
101.	143516	12-08-1975	F. L. SMIDTH & COMPANY, A/S, 77 Vigerslev Alle, DK-2500 Valby Copenhagen, Denmark.	A method for the calcination of preheated pulverous material.
102.	143520	27-04-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of acetoacetylarylamides.
103.	143521	03-11-1976	RHONE-POULENC INDUSTRIES, 22 Avenue Montaigne, 75 Paris (8), France.	Process for the production of phosphoric acid.
104.	143545	05-05-1975	LUDWING TAPROGGE, R. F. R. W. 4034 Angermund, Wacheider Strasse 7, FRG.	Process and equipment for the condensation of steam.
105.	143558	15-07-1975	CONTINENTAL CARBON COMPANY, 4120 Southwest Freeway Houston, Texas-77027, U.S.A.	Manufacturing oil furnace carbon blocks.
106.	143559	15-03-1976	EGYT GYOGYSZERVEGYESZATI-GYAR 30, Kereszturi ut, Budapest X, Hungary.	Preparation of thiocarbamide.
107.	143562	20-05-1975	IMPERIAL CHEMICAL INDUSTRIES LIMITED, Imperial Chemical House, Millbank, London SW1 England.	Porous diaphragms suitable for use in an electrochemical cell.

## CHEMICAL LIST NO XXI

## COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the field of Chemical Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patent inventions.

Persons who are interested to work the said patentees commercially may contact the Patentees for the grant of a licence for the purpose.

Sr. No.	Patent No.	Date of Patent	Name of the party	Title of the invention
1	2	3	4	5
1.	140052	04-05-1974	CRAWFORD BROWN NURTON, 1906 Brushcliffe Road, Pittsburgh, State of Pennsylvania 15221, U.S.A.	Method for refining iron-base metal.
2.	141738	19-12-1974	SOLVAY & CIE, 33 rue du Prince Albert, B-1050 Brussels, Belgium.	Manufacture of short fibrils.
3.	143563	22-10-1974	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Production of ethylene oxide.

1	2	3	4	5
4.	143579	16-09-1974	NL INDUSTRIES INC., 111 Broadway, New York, New York 10016, U.S.A.	A sintered unitary ceramic body and process for making the same.
5.	143602	12-12-1974	THE LUBRIZOL CORPORATION, Box 17100 Euclid Station, Cleveland, Ohio 44117, U.S.A.	Preparation of hydroxyalkyl hydrox-aromatic condensation products.
6.	143627	22-05-1973	CHINON GYOCYSZER-ES VEGYES-ZETI TERMEKEK GYARA RT, 1-5, To Utea, Budapest IV, Hungary.	Preparation of isoflavone derivative.
7.	143631	24-03-1976	HOLLANDSE SIGNAALAPPARATEN B.V., Zuichelijke Havenweg 40, Hengelo (O), The Netherlands.	Manufacture of twistless or substantially twistless yarn and the yarn obtained by this method.
8.	143660	13-02-1975	THE LUBRIZOL CORPORATION, Box 17100 Euclid Station, Cleveland, Ohio 44117, U.S.A.	A method for preparing an oil soluble nitrogen containing composition useful in lubricants and fuels.
9.	143661	13-08-1975	SACHS SYSTEMTECHNIK GMBH, 872 Schweinfurt am main Johann George, George Gademann Strasse-13, GFR.	Process and apparatus for destroying oxidisable contaminants in an aqueous liquid.
10.	143693	24-01-1977	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	A process for the preparation of 1, 3-dihydro-1-dimethylphosphinyl-alkyl-3-phenyl-spiro [isobenzofuran]s.
11.	143710	14-06-1976	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Cavel Van Bylandtlaan 30, The Hague, The Netherlands.	Dehydrogenation of a hydrocarbon with the acid of an iron containing catalyst.
12.	143713	07-01-1975	ALUTERV ALUMINIUMIPARI TERVEZO VALLALT, Pozsonyi ut 56, Budapest XIII, Hungary.	Digestion and expansion of bauxite slurry in the alumina production.
13.	143727	19-01-1976	TOYAMA CHEMICAL COMPANY LIMITED, 1-18, Kayabacho, Nihonbashi, Chuo-ku, Tokyo, Japan.	Producing cephalosporins.
14.	143728	18-02-1976	1. FIRMA CARL STILL, Kaiserwall 21, Recklinghausen, FRG. 2. RHEINISCHE BRAUNKOHLEN-WERKE AKTIENGESELLSCHAFT, Konrad-Adenauer-Ufer 55, Köln, FRG.	A method and a furnace for producing non-abrasive coke briquettes from lignite briquettes.
15.	143729	05-05-1976	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Alle, DK-2300 Valby Copenhagen, Denmark.	A method of calcining pulverous an granular raw material and a kiln plant for same.
16.	143734	02-04-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Liquid preparation of reactive dyestuffs.
17.	143739	05-01-1976	SHIN-ETSU CHEMICAL COMPANY LIMITED, 6-1 Otemachi, 2-Chome, Chiyodaku, Tokyo, Japan.	Polymerization of vinyl chloride monomers.
18.	143741	17-03-1976	MINNESOTA MINING AND MANUFACTURING COMPANY, 3M Centre, Saint Paul, Minnesota, U.S.A.	Curing polyaminophenol epoxy resin.
19.	143746	18-07-1975	DEERE & COMPANY, John Deere Road, Moline, Illinois, U.S.A.	Production of cast modular iron.
20.	143741	17-04-1976	CSEPÉLI FÉMNU, Csepel, Budapest, Hungary.	Production of high-grade copper by pyrometallurgical refining of blister copper and copper scraps.
21.	143761	29-10-1976	ENSO-GUTZEIT OSAKEYHTIO, Kanavaranta 1, 00160 Helsinki 16, Finland.	Hydrocyclone.
22.	143773	29-10-1975	SHIN-ETSU CHEMICAL COMPANY LIMITED, 6-1, Otemachi, 2-Chome, Chiyodaku, Tokyo, Japan.	Bulk polymerization of vinyl chloride.
23.	143794	11-06-1975	MITSUI TOATSU CHEMICALS INC, 2-5, Kasumigaseki, 3 Chome, Chiyodaku, Tokyo, Japan.	Chemical process and apparatus.
24.	143800	20-09-1975	METALLGESELLSCHAFT AG, Frankfurt A.M. Reuterweg 14, West Germany.	Carrying out endothermic process.
25.	143802	31-05-1976	Do.	Separating solid granular metallurgical products and their precursors on a plurality of linearly vibrating screens.

1	2	3	4	5
26.	143813	07-08-1976	NISSAN CHEMICAL INDUSTRIES LIMITED, 3-7-1, Kanda Nishiki-cho, Chiyoda-ku, Tokyo, Japan.	Manufacture of highly concentrated phosphoric acid.
27.	143818	12-05-1976	C.S.I.R., Rafi Marg, New Delhi.	Preparing a new fire extinguishing material for extinction of fires inflammable liquids.
28.	143822	14-08-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Purification of crude poly halo-copper-phthalo-cyanins.
29.	143853	25-01-1977	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Dyeing cellulose fibres with water insoluble azo dyestuffs produced on the fibres.
30.	143864	04-05-1976	THE INDIAN SPACE RESEARCH ORGANISATION, "F" Block, Cauvery Bhavan, District Office Road, Bangalore 560 009, Karnataka State.	Production of polyols.
31.	143873	17-06-1976	1. BAYER AG, 509, Lever Kusen, FRG. 2. METALLGESELLSCHAFT AG, Reuterweg 14, Frankfurt/Main, FRG.	Producing sulfuric acid.
32.	143877	29-10-1975	THE FERTILIZER CORPORATION OF INDIA LIMITED, Sindri, Dist. Dhanbad, Bihar.	Manufacture of sulphur from by product gypsum.
33.	143878	29-10-1975	Do.	Manufacturing sulphur from pyrite-ferrous shale.
34.	143881	29-03-1975	SNAMPROGETTI S.P.A., 16 Corso Venezia, Milan, Italy.	Recovering urea powder.
35.	143889	11-11-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Manufacture of polymer mixture as intermediate sheeting for laminated glass.
36.	143891	27-11-1975	PERSONAL PRODUCTS INC. Milltown, New Jersey, U.S.A.	Absorbent product with reduced sloughing properties and a catamenial tampon using same.
37.	143893	03-02-1976	EGYT GYOGYSZERVEGYESZETI GYAR, 30, Keresztfuri ut, Budapest X, Hungary.	Preparation of novel oxime ethers.
38.	143905	02-04-1975	METALLGESELLSCHAFT AG, 6 Frankfurt/AM/Reuterweg 14, West Germany.	Direct reduction of iron oxide containing material in a rotary kiln.
39.	143911	22-10-1975	RHEINISCH-WESTFALISCHES ELECTRITATSWERK AG, 43 Essen Krupp Strasse 5, FRG.	Preparation of synthetic manganese-dioxide.
40.	143915	10-12-1975	ARBROOK INC, Arbrook Boulevard Arlington Texas, U.S.A.	Treating medical, surgical and household subjects to render them sterile.
41.	143935	08-03-1977	CONTINENTAL CARBON COMPANY, 4120 South West, Freeway, Houston, Texas, U.S.A.	Combustion of waste gases.
42.	143950	28-01-1976	METALLGESELLSCHAFT AG, 16 Frankfurt AM, Reuterweg 14, West Germany.	Transforming black liquors of high viscosity into a pumpable state.
43.	143956	18-09-1975	CHINION GYOGYSZER ES VEGYESZETI TERMEKEK GYARA RT, TOUTca, 1-5, Budapest, Hungary.	Preparation of N-(2 benzhydryl-ethyl)-N-1 phenyl-ethyl)-amine and pharmaceutically acceptable salts thereof.
44.	143957	12-11-1976	1. VEGYTERV VEGYIMUVEKET TERVEZO VALLALAT, Erzsebet Kiralyne utja, 1/C, Budapest XIV, Hungary, 2. VESZPREMI VEGYIPARI EGYETEM, Schonherz Zoltan Utca 10, Veszprem, Hungary.	Production of enriched gas from air.
45.	143962	04-05-1976	THE INDIAN SPACE RESEARCH ORGANISATION, "F" Block, Cauvery Bhavan, District Office Road, Bangalore 560009.	Production of hydrocarbon from vegetable oil.
46.	143976	14-03-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Catalyst for the polymerization of 1-olefin.
47.	143978	16-06-1975	LONDON LABORATORIES LIMITED COMPANY, 15 Lunar Drive, Woodbridge, Connecticut, U.S.A.	Deposition of copper on activated surface.
48.	143982	17-11-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Liquid preparation of reactive dyestuffs.

1	2	3	4	5
49.	143985	28-04-1976	C. S. I. R., Rafi Marg, New Delhi.	Synthesis of substituted-2-naphthalenides as cestocidal agents.
50.	143986	29-04-1976	METALLGESELLSCHAFT AG, 16 Frankfurt Am Reuterweg 14, West Germany.	Production of gas from solid fuels.
51.	143987	24-12-1974	TAKEDA CHEMICAL INDUSTRIES, 27 Doshimachi, 2-Chome, Higashi-ku, Osaka, Japan.	Preparing cephalosporin derivatives.
52.	143988	24-12-1974	TAKEDA CHEMICAL INDUSTRIES, 27 Doshimachi, 2 Chome, Higashi-ku, Osaka, Japan.	Preparing cephalosporin derivatives.
53.	143998	13-04-1977	KALI-CHEMIE AKTIENGESELLSCHAFT, Hansockler-Allee 20, 3000 Hannover, West Germany.	Producing calcined phosphate fertiliser of high citrate solubility.
54.	144002	30-07-1975	RHONE-POULENC INDUSTRIES, 22 avenue Montaigne, 75 Paris (8th), France.	Micro-porous membrane containing asbestos.
55.	144018	27-08-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Polymerization reactor with gilled-tube radiator and axial agitator.
56.	144020	30-09-1975	Do.	Preparation of novel water-soluble benzoxanthene and benzoioxanthene compounds.
57.	144027	14-04-1977	THE LUBRIZOL CORPORATION, Box 17100 Euclid Station, Cleveland, Ohio, U.S.A.	Preparing a magnesium containing complex.
58.	144029	16-11-1976	1. KUMARAPALAYAM LAKSHMANASWAMY PALANISWAMY, 4-48, Kumarapalayam Tongattipatoyam (P.O.) Palladam (T. K.) (Via) Thirupur 638665, 2. PALANIAPPA CHETTIAR PARTHASARATHI 13/14, Thayampalayam (post) Dharapuram (Taluk), Udiyoor (Vt) Coimbatore (Dist.) 638703.	Preparation of sodium sulphides and sodium sulphite.
59.	144057	19-11-1975	PERSONAL PRODUCTS INC., Milltown, New Jersey, U. S. A.	Making absorbent cellulose particles.
60.	144061	21-07-1976	NORDMARK WERKE GESELLSCHAFT MIT BESCHAANKLER HAFTUNG, Hamburg, Werk Vetersen/Holstien in D-2082, Vetersen, FRG.	Production of new oxazolidinones.
61.	144072	04-03-1975	ALFA-LAVAL AKTIEBOLAG, Postfack S-14700 Tumba, Sweden.	Heat treatment of a liquid at high temperature.
62.	144112	10-02-1977	DR. C. OTTO & COMP, GmbH, Christstrasse 9, Post fach 1849/1850, 463 Bochum, West Germany.	Discharging dusty gases resulting from the pushing of coking ovens.
63.	144119	03-09-1975	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	A composition comprising a dyestuff pigment or optical brightener and a condensation product of Alkyl Naphthalene and sulfonic acid and formaldehyde.
64.	144120	30-09-1975	Do.	Dyeing and printing of synthetic polyamides.
65.	144126	16-06-1976	CHINION GYOGYSZER ES VEGYESZETI TERMLKEK GYARA RT, 1-5 to U Budapest IV, Hungary.	Preparation of new malonic esters.
66.	144144	22-07-1975	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, New York, USA.	Producing silicon iron sheet material with boron addition.
67.	144147	19-10-1976	C. S. I. R., Rafi Marg, New Delhi.	Electro-chemical preparation of o-toluidine sulphate from o-nitro toluene.
68.	144150	10-10-1975	ZAKLADY AZOTOWE IM.F. DZIFRZYNSKIEGO, Tarnow, Ul Lipowa 33-101 Tarnow, Poland.	Oxidation of hydrocarbons in the liquid phase under pressure by oxygen containing gases preventing disturbances or effects of disturbances in reaction.
69.	144152	06-11-1975	METALLGESELLSCHAFT AG, 6 Frankfurt AM/Reuterwe 14, West Germany.	Gravity separation process for removing tar from aqueous condensate.
70.	144157	16-06-1976	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	Preparing digestive enzyme compositions.

1	2	3	4	5
71.	144160	16-12-1974	NUCHEM PLASTICS LIMITED, 20/6 Mathura Road, Faridabad, Haryana, India.	Preparation of polycarbonates.
72.	144178	31-07-1974	MOBIL OIL CORPORATION, 150 East 42nd Street, New York, New York-10017, U.S.A.	Conversion of synthesis gas to gasoline.
73.	144191	23-09-1976	C. S. I. R., Rafi Marg, New Delhi.	Electro-chemical production of 2 hydroxy paraaminobenzoic acid from 2-hydroxy-nitrobenzoic acid.
74.	144204	28-05-1974	CHINON GYOGYSZER ES VEGYESZETI TERM KEK GYARA RT, 1-5 to U Budapest IV, Hungary.	Preparation of new thiazole-isoquinolines.
75.	144205	19-04-1976	THE B. F. GOODRICH COMPANY, 277 Park Avenue, New York, N.Y.-10017, U.S.A.	Coating the internal surfaces of reaction vessel for use in olefinic polymerisation.
76.	144206	07-05-1976	1. METALLGESELLSCHAFT AG, Reuterweg 14, Frankfurt Main, FRG. 2. CHEMIE LINZ AG, 4021 Linz-st Peterstrasse-25, West Germany.	Continuous process of recovering pure concentrated ammonia.
77.	144212	20-09-1974	NL INDUSTRIES INC, 111 Broadway, New York, New York-10016, U.S.A.	Sintered unitary ceramic bodies.
78.	144216	09-05-1975	E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Delaware, U.S.A.	An oriented filament of polyester.
79.	144219	28-10-1975	METALLGESELLSCHAFT AG, 6 Frankfurt Am/Reuterweg 14, West Germany.	Separating and recovering solids and clear liquid phase from dispersions.
80.	144220	27-04-1976	HOECHST AG, 6230 Frankfurt/Main 80, FRG.	Preparation of 5-aceto cetyl-amino-benzimidazole-(2).
81.	144221	27-04-1976	Do.	Preparation of N-aceto acetyl-2, 5-dimethoxy-4-chloroanilides.
82.	144241	29-05-1976	PHILLIPS PETROLEUM COMPANY, Bartlesville, Oklahoma, U.S.A.	Production of microbial cells usable as food source.
83.	144243	01-03-1977	RICHTER GEDEON VEGYESZETI GYAR RT, 19-21 Gyomroi ut, Budapest X, Hungary.	Preparing 1-tert-butylamino-3-(2, 5-dichlorophenoxy)-2 propanol.
84.	144252	02-12-1974	MONSANTO COMPANY, 800 North Lindbergh Boulevard, SE, Louis, Missouri 63166, U.S.A.	Preparing novel bis phosphine Compounds.
85.	144257	01-02-1974	HOOKER CHEMICALS & PLASTICS CORPORATION, Niagara Falls, New York, U.S.A.	Electrolytic decomposition of aqueous solution of ionizable chemical compounds.
86.	144258	01-02-1974	Do.	Chlorine and caustic soda from solutions of sodium chloride.
87.	144261	02-04-1975	PERSONAL PRODUCTS INC, Milltown New Jersey, U.S.A.	Making Cellulose graft copolymer.
88.	144264	30-07-1975	SNAMPROGETTI S.P. A. 16 corso Venezia, Milan, Italy.	Producing polymino alanes.
89.	144277	17-05-1976	CIBA-GEIGY OF INDIA LIMITED, Aeray Road, Goregaon East, Bombay-400063.	Production of novel heterocyclic compounds.
90.	144283	30-06-1973	CHINON GYOGYSZER ES VEGYESZETI TARMERKER GYARA RT, Budapest, Hungary.	Preparation of amino-imidazo isoquinolines.
91.	144284	30-06-1973	Do.	Preparation of amino imidazo pyrazolo isoquinolines.
92.	144285	30-06-1973	Do.	Preparation of amino-imidazo and amino-pyrazolo isoquinolines.
93.	144286	30-06-1973		Production of aminoimidazo and quinopyrazolo-isoquinolines.

## COMMERCIAL WORKING OF PATENTED INVENTIONS

[MECHANICAL &amp; GENERAL LIST NO. 7]

The following Patents in the field of Mechanical and General Engg. Industry are not being commercially worked in India as admitted by the Patentees in the statement filed by them under Section 146(2) of Patents Act, 1970, in respect of Calendar Year 1979, generally on account of want of requests for licences to work the patented inventions.

Persons who are interested to work the said patents commercially may contact the Patentees for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of the party	Title of the invention
1	2	3	4	5
1.	142719	30-09-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, John Street, London, England.	Rail vehicle braking system.
2.	142724	11-07-1974	DR. C. OTTO & COMP. GmbH, 463 Bochum, FRG.	Levelling device for coke ovens.
3.	142741	08-10-1975	YOSHIO MURAO, Ha 56-1, Masuizumimachi, Kanazawa, Ishikawa Pref. Japan.	Cleaning machine for bobbins with waste sliver.
4.	142745	27-06-1974	SOCIETE D'ETUDES DE MACHINES THERMIQUES, 2 Quai de Seine, Saint Denis, France.	A device for conditioning the air supply for a low compression ratio super charged I.C. engine in particular at start and low load operation.
5.	142755	10-09-1975	GIRLING LIMITED, King Road, Tyseley, Birmingham 11, Warwickshire, England.	Spreading disc brakes.
6.	142759	04-10-1975	KNORR BREMSE GmbH, 8000 München, 40 Moosacher Strasse-80, FRG.	Compressed air braking device for rail vehicles.
7.	142768	17-12-1974	EMHART INDUSTRIES INC, 426 Colt Highway, Farmington, Connecticut, USA.	A multi section glassware forming machine.
8.	142769	22-01-1975	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi.	A multi-exposure high pressure X-ray powder diffraction camera.
9.	142779	14-01-1976	SIEMENS AG, Berlin & Munich, West Germany.	Apparatus for monitoring the level of liquid in a vessel.
10.	142780	23-04-1976	F. L. SMIDTH & COMPANY A/S, 77 Vigerslev Allé, DK-2500, Valby, Copenhagen, Denmark.	Rotary drum plants.
11.	142798	24-08-1974	YUON HO LEE, 85 Jen Ho Road Tainan, Taiwan, Republic of China.	A heading to machine for making headed goods.
12.	142808	25-07-1974	DR. LIONEL CHARLES RENNICK EMMETT 7C Denmark Road, Kingston-upon-Thames, Surrey, U.K.	Intrauterine contraceptive devices.
13.	142814	10-06-1975	RUTI MACHINERY WORKS LIMITED, 8630 Ruti, Zurich, Switzerland.	Elastic shuttles for looms.
14.	142851	26-06-1975	USS ENGINEERS AND CONSULTANTS INC, 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	A curved roll rock of continuous casting machine and a method of continuous casting.
15.	142856	18-04-1975	SPIRODL CORPORATION LIMITED, 385 Dawson Road, Winnipeg, Manitoba, Canada.	Slab extruding machine.
16.	142900	24-11-1975	VENMACK INDIA, Skylark, Golf Links Road, Kaudiar, Trivendrum-3, Kerala, India.	Automatic vending machine for dispensing beverages in disposable cups.
17.	142907	05-08-1975	GENERAL ELECTRIC COMPANY, 1 River Road, Schenectady, New York, USA.	Prime mover speed system.
18.	142913	04-04-1975	PARKINSON COWAN GWB LIMITED, Burton Works, Dudley, West Midlands, England.	A boiler and a grate assembly for such a boiler.
19.	142927	25-06-1975	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, USA.	Rotary tool as a surface grinding tool including a rotary air motor.
20.	142936	07-06-1976	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	A device for gasifying fuels in fine grain form.
21.	142978	30-08-1975	A. DATTA, 237, Jodhpur Park, Calcutta, West Bengal, India.	A device for measuring quantity or liquid gas within a cylinder.
22.	142981	26-09-1974	G. D. SOCIETA PER AZIONI, Via Pomponia 10, Bologna, Italy.	Device for transferring and shaping ready for use.
23.	142998	26-09-1974	Do.	Device for producing a cigarette packing machines the under strip or shoulder piece.

1	2	3	4	5
24.	143001	12-05-1975	GIRLING LIMITED, King's Road, Tyseley, Birmingham, 11, Warwickshire, England.	Improvements in hydraulic booster for vehicle braking system.
25.	143002	25-07-1975	JOSEF K-RINGS, D-5138, Heinsberg, Oberbruch, Hans-bockler-strasse 23, FRG.	Sheeting arrangement for sheeting of a ditch.
26.	143010	21-08-1974	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	Closure for the charging holes of coke ovens.
27.	143015	3-10-1975	MATALLGESELLSCHAFT AG, 6 Frankfurt am Main, Reuterweg 14, FRG.	Improved combustion system for pelletizing apparatus of the travelling grate type.
28.	143017	13-01-1976	F. L. SMITH & COMPANY A/S, 77 Vigerslev Alle, DK-2500 Valby, Copenhagen, Denmark.	Rotary drum.
29.	143024	28-08-1975	DR. C. OTTO & COMP, GmbH, Bochum, FRG.	Probe disposed in a high pressure chamber.
30.	143027	29-05-1974	GIRLING LIMITED, Birmingham, England.	Internal shoe-drum brakes and an adjuster for the shoes of the brakes.
31.	143032	25-07-1975	JOSEF KRINGS, Heinsberg, Oberbruch, FRG.	A self supporting sheeting panel for shoring trenches.
32.	143045	22-06-1974	GIRLING LIMITED, Birmingham, England.	A filler cap for a liquid reservoir.
33.	143046	29-07-1974	Do.	Vehicle brake actuators.
34.	143055	30-08-1974	O and K. ORENSTEIN & KOPPEL AG, WERK, LUBECK, Einsiedel Strasse 6, Lubeck, FRG.	Double jib crane.
35.	143062	08-01-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi, India.	A device for picking up undulations on a moving disc record groove.
36.	143064	11-07-1974	GUSTAV IKES, Karlsbader Strasse, 1a 6462 Geinhausen-Haclar, FRG.	A precast load bearing wall element for the erection of pre-fabricated building.
37.	143076	25-10-1975	GIRLING LIMITED, Birmingham, 11, England.	Actuator assemblies for vehicle brakes.
38.	143101	12-01-1976	CHICAGO PNEUMATIC TOOL COMPANY, 6 East 44th Street, New York, USA.	Safety inlet air valve control arrangement for air powered hand hold tool.
39.	143165	27-05-1975	SAINT GOBAIN INDUSTRIES, 62 Boulevard, Victor-Hugo, Neuilly-Sur-Seine, France.	Process and apparatus for the manufacture of tubes from fibrous felt.
40.	143168	01-10-1975	SURENDRALAL MALHOTRA, 9A/84, Western Extension Area, Karol Bagh, New Delhi, India.	Laminating apparatus.
41.	143170	15-12-1975	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	Apparatus for discharging hot liquid from a pressure vessel.
42.	143171	31-12-1975	TEXMACO LIMITED, Belgnaria, Calcutta-56, West Bengal, India.	Apron bridge bar for use in drafting system.
43.	143177	18-12-1974	OWENS CORNING FIBERGLASS CORPORATION, Toledo, Ohio, U.S.A.	Method of forming glass fibres and apparatus therefor.
44.	143178	06-02-1975	GIRLING LIMITED, Birmingham, England.	A pressure control valve for a braking system.
45.	143179	29-03-1975	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	A device for continuously withdrawing solids which have formed a sediment in a liquid.
46.	143180	02-06-1975	NICO-PYROTECHNIC HANNS-Jurgen Diederich KG 2077, Trittan Bei du Fenerwerkerei, FRG.	Impact detonator.
47.	143205	27-01-1977	LUDWIG TAPROGGE Reinigungsanlagen Fur Rohrenwärmeaus, Tauscher, Wallholderstrasse 7, Dusseldorf, FRG.	A device for the separation of solids from a liquid stream.
48.	143212	18-06-1975	OCE-VAN DER GRINTEN N. V., Venlo, Holland.	Liquid application device on a sheet like material.
49.	143248	17-09-1976	ALLAN A. CONNEL, P. B. 23, Highway 212, Stellwater, Minnesota, U.S.A.	Gas anaesthesia device.
50.	143275	31-03-1975	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	A coke guide machine movable on the cokesside of coke oven batteries.
51.	143318	25-09-1975	WESTERN GEAR CORPORATION, 2100 Norton Avenue, Everett, Washington, U.S.A.	Hydraulic drilling rig and power swivel and a method of drilling.

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52.	143353	15-04-1976	UNITED TECHNOLOGIES CORPORATION, 1 Financial Plaza, Hartford, Connecticut, U.S.A.	Ball bearing.
53.	143361	28-02-1975	1. FRITZ STAHLCKER, Josef-Neidhart Strasse, 18 D-7341 Bad Überkingen, West Germany, and 2. HANS STAHLCKER, Haldenstrasse 20, Suessen, West Germany.	Apparatus for start-spinning a thread of an open-end spinning unit of an open-end spinning machine.
54.	143366	21-06-1975	OTTO JUNKER GmbH, Hammersd Aorf 5107, Simmerath, GFR.	Procedure for casting specified quantities of molten metal and device for carrying out this procedure.
55.	143372	17-12-1974	ABEX CORPORATION, 530 Fifth Avenue, New York, N.Y.U.S.A.	Variable displacement fluid translating device like a pump.
56.	143427	12-11-1975	BETHLEHEM STEEL CORPORATION, Bethlehem, Pennsylvania, U.S.A.	Marine apparatus having telescopic legs.
57.	143441	16-06-1975	AIKOH COMPANY LIMITED, 1-39, 2-chome, Ikenohata Taito-ku, Tokyo, Japan.	Manufacturing killed steel ingots of superior quality.
58.	143450	09-06-1975	PALITEX-PROJECT COMPANY, GmbH Weeserweg 8, 415 Krefeld, West Germany.	A spinning or twisting spindle, in particular a double twisting spindle.
59.	143455	17-07-1974	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	A system for controlling operations of a turbine.
60.	143459	14-03-1975	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Machine for forming individual pieces such as sweets or other similar products.
61.	143460	14-03-1975	G. D. SOCIETA PER AZIONI, Bologna, Italy.	Machine for forming individual pieces such as sweets or other similar products out of a continuous candy rope and for wrapping them therein.
62.	143484	08-01-1976	P. C. WADHWANA, Wadhwana Mechanical Works, 13 Brabourne Road, Calcutta, West Bengal, India.	Bobbin holder.
63.	143495	08-10-1975	JASBIR SINGH BAJAJ, 8 Jameshotji Tata Road, Churghgate, Bombay, Maharashtra State, India.	Horological chronometric instrument and in particular to an electronic solid-state automatic time adaptive watch or clock.
64.	143505	25-01-1975	A/S Tekneca, 2900 Nivaa, Denmark.	A fixture to be mounted on the discharge spout of a glass bottles or a similar tubular member.
65.	143506	21-01-1976	FRITZ TRABER, 8000 Munich, 90 Oberviechtacher Str-29, FRG.	A mountable and removable arresting device for a foil or a similar thin covering material for making temporary or permanent covering, encasings, special partitions.
66.	143508	28-10-1976	F. L. SMITH & COMPANY A/S, 77 Vigerslev Alle, Copenhagen Valby, Denmark.	Tube mills for drying and grinding.
67.	143542	16-8-1974	GIRLING LIMITED, Birmingham, England.	Disc brakes.
68.	143546	15-07-1975	KNORR BREMSE BmbH, 8000 Munchen, 40 Moosacher Strasse 80, FRG.	Three pressure control valve for brake devices in rail vehicles.
69.	143551	31-12-1975	1. FRITZ STAHLCKER, Josef-Neidhart-Strasse 18, Bad Überkingen, 2 hans for STAHLCKER, Halden Strasse, Suessen, West Germany,	Open end spinning unit containing means cleaning fibrous material.
70.	143576	22-11-1976	CITIZEN WATCH COMPANY LIMITED, 1-9-18 Nishinjuku, Shinjuku-ku, Tokyo, Japan.	A clamping device.
71.	143591	11-03-1974	PALITEX PROJECT COMPANY, GmbH, Krefeld, FRG.	Means for the measurement of thread storage on a double-twisting spindle.
72.	143592	12-03-1975	DANA CORPORATION, 4500 Dorr Street, City of Toledo, Ohio, U.S.A.	Valve for rotary valve engine.
73.	143598	15-10-1975	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, USA.	Surgical dressing.
74.	143635	28-02-1975	FRITZ STAHLCKER, Bad Überkingen and HANS STAHLCKER, Suessen, West Germany.	Open end spinning machine incorporating a movable piecing-up apparatus.
75.	143640	15-02-1975	YUON HO LEE, 85 Jen Ho Road, Tainan, Taiwan, Republic of China.	Intermittent rotary mechanism.

1	2	3	4	5
76.	143642	01-01-1976	BASF FARBEN & FASERN AG, D-200 Harnburgh 30, Am Nu Markt, FRG.	Preserving and protecting steel object from corrosion.
77.	143662	21-08-1975	VEB SPINNEREIMASCHINENBAU KARL-MARX STADT, Althcmitzer Str. 27, Karl-Marx Stadt.	Method of spinning and twisting yarn on spinning and twisting frames with a driven spinning ring.
78.	143709	04-03-1976	K. K. GANDHI, 17 Camac Street, Calcutta-16 -West Bengal, India.	A screen printing machine for printing on sheet material.
79.	143748	02-04-1976	COMBUSTION ENGINEERING INC, 1000 Prospect Hill Road, Wjdsor, Connecticut, U.S.A.	Fin to tube welding by high frequency current source.
80.	143757	04-05-1976	NATIONAL INSTJTUTE OF DESIGNS, 11A, Rouse Avenue, New Delhi India	A compass.
81.	143776	19-11-1974	YUAN HO LEE, 85 Jen Ho Road, Tainan, Taiwan, Republic of China.	Automatic high speed cold heading machine.
82.	143777	31-12-1975	Do .	Multihead radial type nut tapper.
83.	143784	18-03-1976	PAUL OPPRECHT, 8962, Bergdietikon, Switzerland.	Seam welding overlapped edges.
84.	143814	08-11-1974	THE ENGLISH CARD CLOTHING COMPANY, Acre Street, Lindley, Huddersfield, Yorkshire, England.	Assembly for fibre processing machine.
85.	143819	09-05-1975	Do.	Cording machine with stationary cording plate assembly.
86.	143823	18-12-1975	SIEMENS AG, Berlin and Munich, FRG.	Split cable sleeves.
87.	143834	26-04-1976	ALBANY INTERNATIONAL CORP, 1373, Broadway Albany, New York, U.S.A.	Controlled release of vapours.
88.	143884	05-08-1975	PALITEX PROJECT COMPANY GmbH, Seeserweg 415, Krefeld, West Germany.	Double twisting spindle.
89.	143888	04-11-1975	C.S.I.R., New Delhi, India.	Thermal sensing alarm.
90.	143896	24-05-1976	NICO-PYROTECHNIK Hanns-Jürgen Diederich KG, 2077 Trittan, Bei du Fenerwerkei, FRG.	Impact detonator.
91.	143907	30-05-1975	CATERPILLAR TRACTOR COMPANY, 100 N-E Adams Street, Peoria, Illinois, U.S.A.	Weldment for bulldozer blade.
92.	143964	21-07-1976	SURENDRA LAL MAHENDRA, 9A/84 Western Extension Area, Karol Bagh, New Delhi, India.	Laminating apparatus.
93.	143980	22-10-1975	PENNWALT CORPORATION, Pennwalt Building, Three Portway, Philadelphia, Pennsylvania, U.S.A.	Centrifuge apparatus.
94.	143993	20-05-1975	HAMBRO STRUCTURAL SYSTEMS LIMITED, 1489, D Merivale Road, Ottawa, Ontario, Canada.	Joist.
95.	144004	18-10-1975	F. L. SMIDTH & COMPANY A/S, Copenhagen, Denmark.	Sack magazine.
96.	144005	25-03-1976	FRANZ J. SAUL, Guerzenicher Strasse, 61, 5160 Dueren, FRG.	Producing a collapsibly foldable packaging sleeve having a polygonal cross section.
97.	144006	24-07-1976	ARMSTRONG CORK COMPANY, Liberty and Charlotte Streets, Lancaster, Pennsylvania, U.S.A.	Apron skiving machine.
98.	144007	08-12-1976	BIOMAGNETICS INTERNATIONAL INC, 214 Hogan Street, Jacksonville, Florida, U.S.A.	Exposing seeds to a magnetic field.
99.	144021	06-05-1976	NATIONAL INSTITUTE OF DESIGNS 11A Rouse Avenue, New Delhi, India.	An ellipsograph.
100.	144040	07-12-1976	C.S.I.R., Rafi Marg, New Delhi, India.	Differential evaporator solarimeter.
101.	144042	17-08-1976	WILTSHIRE CUTLERY COMPANY PROPRIETARY LIMITED, 36 Albert Road, South Melbourne, Victoria, Australia.	Knife sharpener.
102.	144046	21-04-1975	RIVA CALZONICSPA, Via Stendhal 34, Milan, Italy.	Water level control valves in tanks.
103.	144047	13-04-1976	LEVI STRAUSS & COMPANY, Two Embarcadero Centier, San Francisco.	Preventing leg twist in denim garments.
104.	144048	01-06-1976	SKF KUGELL-AGERFABRIKEN GmbH, Frust Sachs Strasse, Schweinfurt 2/BRD, FRG.	Stopping device for the rotor of an open end spinning machine.

1	2	3	4	5
105.	144049	28-02-1976	SHANKAR GULANAGOUDA PATIL, C/O H. A. Patil, Shiggaon, Distt. Dharwar, Karnataka, India.	Collapsible furniture such as cot, table, teapoy or like.
106.	144052	12-03-1975	CATERPILLAR TRACTOR COMPANY, Peoria, Illinois, U.S.A.	Modular truck body and method for making the same.
107.	144058	19-11-1975	PERSONAL PRODUCTS INC, Milltown, New Jersey, U.S.A.	Absorbent product with absorbent core.
108.	144084	23-12-1975	BRIDGESTONE TIRE COMPANY LIMITED, 1-1, 1-chome, Kyobashi, Chuo-ku, Tokyo, Japan.	Pneumatic tire.
109.	144091	18-08-1976	VEREINIGTE OSTERREICHISCHE EISEN-UND STAHLWERKE—ALPINE MONTAN AG, Vienna, Frindrichstrasse 4, Austria.	Cutting machine.
110.	144100	18-07-1975	TAVKOZLESI KUTATO INTEZET, Gabor Aron ut 65, 1026 Budapest, Hungary.	Microwave crystal mount.
111.	144115	22-03-1975	C.S.I.R., Rafi Marg, New Delhi, India.	Converting mechanism of rotary motion into precision rectilinear motion.
112.	144129	20-08-1976	VEREINIGTE OESTERREICHISCHE EISEN-UND STAHLWERKE ALPINE MONTAN AG, Vienna, Australia.	Hydraulic mine pump.
113.	144136	29-11-1977	GANPATI BOSE, Sadarghat, Midnapore, West Bengal, India.	Cement pole.
114.	144187	29-03-1975	DR. C. OTTO & COMP. GmbH, Bochum, FRG.	Boiler having a wall consisting of weldable material.
115.	144189	23-06-1975	AG FR METTIER'S SOEHNE, 6415, Arlh, Switzerland.	Yarn singeing device.
116.	144201	18-03-1976	FULGURITWERKE SEELZE UND EICHRIEDE IN LUTHE BEI HANNOVER ADOLF OSTERHELD, Luthe, Via Wunstorf, FRG.	Producing fibre sheet or panel or like continuous material, particularly an asbestos cement panel material.
117.	144027	18-05-1976	LEDER & COMPANY AG 30, Flushstrasse, 8640 Rapperwil (Kt. St. gallon) Switzerland.	Automatic weaving shuttle and a bobbin in combination with the shuttle.
118.	144213	19-11-1974	JOHAN TENEFJORD MEK UERKSTED, STEDQ Tennfjord, Norway.	Oscillator fluid driven actuator.

**PATENTS DEEMED TO BE ENDORSED WITH THE WORDS  
"LICENCES OF RIGHT"**

The following is the list of Patents deemed to have been endorsed with the words "Licences of Right" under the provision of Section 87 of the Patent Act, 1970. The dates shown in the brackets are the dates of Patents.

No.		Title of the Invention					
141030	(23-12-75)	.	.	.	.	.	A method for the preparation of diphenyl ether derivative.
141182	(24-12-74)	.	.	.	.	.	Process for preparing new D-( $\alpha$ -substituted-aminobenzyl penicillin.
141262	(23-02-76)	.	.	.	.	.	Process for the preparation of a new carboxylic acid antibiotic and salts thereof.
141369	(15-05-75)	.	.	.	.	.	Process for the preparation of 6-D-( $\alpha$ -amino- $\alpha$ -(P-acetoxy phenylacetamido) penicillanic acid.
141393	(12-02-74)	.	.	.	.	.	A process for removing chlorine compounds from industrial fluid streams.
141475	(15-04-75)	.	.	.	.	.	A process for the preparation of isothlouranium salts and free bases thereof.
141941	(08-08-75)	.	.	.	.	.	A process for the synthesis of antifilarial 1-substituted-4-carbamoyl piperazine.
142012	(14-08-75)	.	.	.	.	.	Process for the production of ethylene oxide.
142015	(26-02-76)	.	.	.	.	.	Apparatus and method for preparing dense uniformly layered vegetable protein meat analogue.
142026	(24-09-74)	.	.	.	.	.	Method of processing waste gases containing sulphurous acid anhydride.
142035	(21-08-75)	.	.	.	.	.	A process for producing white urea formaldehyde or melamine formaldehyde moulding powder.
142039	(26-02-75)	.	.	.	.	.	A process for the preparation of a plant growth promoting composition containing trace elements and being suitable for use in ultra low volume application.
142075	(25-02-76)	.	.	.	.	.	Process for the preparation of 0, 0-dialkyl-S-Benzyl thiophosphates.
142076	(25-05-76)	.	.	.	.	.	Process and apparatus for the purification of waste water containing synthetic detergent.

## RENEWAL FEES PAID

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 110337 110482 110562 110563 110741 110751 110821 110920  
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 137631 137708 138370 139001 139109 139148 139374 139455  
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 142525 142791 142937 143054 143095 143128 143173 143187  
 143288 143562 143564 143571 143820 143900 144063 144208  
 144604 144725 144837 144977 145106 145148 145171 145199  
 145200 145500 146078 146157 146351 146361 146411 146478  
 146480 146553 146708 146711 146712 146713 146714 146785  
 146788 147158 147204 147232 147426 147459 147867.

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 134026 dated the 21st December, 1971 made by the Tata Iron & Steel Co. Ltd., Zacharia George & Prof. Guruvayoor Subramanian Ramaswamy on the 12th December, 1979 and notified in the Gazette of India, Part-III, Section 2, dated the 3rd May, 1980 has been allowed and the Patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 139226 dated the 22nd October, 1973 made by Vijay Govind Gokhale on the 10th September, 1979 and notified in the Gazette of India, Part-III, Section 2 dated the 1st March, 1980 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 143347 dated the 26th May, 1976 made by M. M. Suri & Associates Pvt. Ltd. on the 28th February, 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 4th June, 1980 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 144378 dated the 17th May, 1976 made by Taraporevala Marine Biological Research Station on the 12th November, 1979 and notified in the Gazette of India, Part-III, Section 2 dated the 4th October, 1980 has been allowed and the said patent restored.

## REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of the design included in the entry.

- Class 3. No. 149734. Janata Metal Industries, an Indian registered Partnership Firm of 15/2, Pune-Satara Road, Opp : Shankarnarayan Math, Poona-411009, Maharashtra, India. "Toy Refrigerator". July 24, 1980.
- Class 3. No. 149737. M/s. Bali Chemical Industries of 43/1, Ratu Sarkar Lane, Calcutta-700073, West Bengal, India. "Cap of Ink bottles and or pot". July 24, 1980.
- Class 3. No. 149802. Asian Advertisers of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004 Maharashtra, an Indian Partnership Firm. "Ball Pen Gift Box". August 19, 1980.
- Class 3. No. 149803. Asian Advertisers of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004 Maharashtra, an Indian Partnership Firm. "Pen Set Gift Box". August 19, 1980.
- Class 3. No. 149804. Asian Advertisers of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004 Maharashtra, an Indian Partnership Firm. "Wall Calander". August 19, 1980.
- Class 3. No. 149805. Asian Advertisers of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004 Maharashtra, an Indian Partnership Firm. "Wall Calander". August 19, 1980.
- Class 3. No. 149806. Asian Advertisers of 20, Kala Bhavan, 3, Mathew Road, Opera House, Bombay-400004 Maharashtra, an Indian Partnership Firm. "Wall Calander". August 19, 1980.
- Class 3. No. 149846. Eagle Flask Private Limited of P. O. Talegaon General Hospital, Talegaon 410507, District-Punc, State of Maharashtra, India. "Vacuum Flask". August 25, 1980.
- Class 3. No. 149868. ADI Phiroze Peston Jamas, Indian National of Arphi Incorporated, Prabhadevi Industrial Estate, Veer Savarkar Marg, Bombay-400023, State of Maharashtra, India. "Speaker". September 2, 1980.
- Class 3. No. 150025. Kosmetika Private Limited of Sorab House, Senapati Bapat Marg, Dadar, Bombay-400015, Maharashtra. "Torch". October 7, 1980.
- Class 3. No. 150026. Kosmetika Private Limited of Sorab House, Senapati Bapat Marg, Dadar, Bombay-400015, Maharashtra. "Torch". October 7, 1980.
- Class 3. No. 150032. M/s. Dam Products, 46-A, Cycle Market-I, Jhandewalan, New Delhi-110055, an Indian National. "Candy Tray". October 8, 1980.
- Class 3. No. 150118. Philips Electronic and Associated Industries Limited, a British Company of Arundel Great Court, 8, Arundel Street, London, WC 2R 3DT, England. "A Telephone Instrument Base". Priority date May 19, 1980.
- Class 3. No. 150119. Philips Electronic and Associated Industries Limited, a British Company of Arundel Great Court, 8, Arundel Street, London, WC 2R 3DT, England. "A Telephone Instrument Base". Priority date May 19, 1980.
- Class 3. No. 150125. Bata India Limited of 30, Shakespeare Sarani, Calcutta, West Bengal. "A sole for footwear". November 14, 1980.
- Class 3. No. 150126. Bata India Limited of 30, Shakespeare Sarani, Calcutta, West Bengal. "A sole for footwear". November 14, 1980.
- Class 3. No. 150127. Bata India Limited of 30, Shakespeare Sarani, Calcutta, West Bengal. "A sole for footwear". November 14, 1980.
- Class 3. No. 150128. Bata India Limited of 30, Shakespeare Sarani, Calcutta, West Bengal. "A sole for footwear". November 14, 1980.

- Class 3. No. 150132. Philips Electronic and Associated Industries Limited, a British Company of Arundel Great Court, 8, Arundel Street, London, WC 2R 3DT England. "A telephone instrument base". Priority date August 22, 1980.
- Class 3. No. 150236. N. V. Philips' Gloeilampenfabrieken, a limited company of Emmasingel 29, NL-5611 Eindhoven, The Netherlands "A lamp". Priority date July 25, 1980.
- Class 3. No. 150389. Plastella of 91, Swami Vivekanand Road, Borivali, Bombay-400092, State of Maharashtra, India, a partnership firm. "A comb". February 7, 1981.
- Class 3. No. 150390. Plastella of 91, Swami Vivekanand Road, Borivali, Bombay-400092, State of Maharashtra, India, a partnership firm. "Comb". February 7, 1981.
- Class 3. No. 150391. Plastella of 91, Swami Vivekanand Road, Borivali, Bombay-400092, State of Maharashtra, India, a partnership firm. "Comb". February 7, 1981.
- Class 4. No. 149101. Duphar-Interfran Limited of F/5, Shivasagar Estate, Dr. Annie Besant Road, Bombay-400018, Maharashtra State, India. "Bottle without cap". December 20, 1979.
- Class 5. No. 150150. Gopal Krishna Industries, a partnership concern of Unit No. 321, A to Z Industrial Estate, Fergusson Road, Lower Parel, Bombay-400013, Maharashtra, "Playing Card". November 25, 1980.

Class 10. No. 150124. Bata India Limited of 30 Shakespeare Sarani, Calcutta, West Bengal. "A foot-wear". November 14, 1980.

Class 11. No. 149875. M/s. Vogue Wear of 3/525, Navjivan Society, Lamington Road, Bombay-400008, Maharashtra, an Indian Partnership Firm. "Petty-coat". September 6, 1980.

Class 11. No. 149992. B. Parmanand Industries of 508-511 Bharat Industrial Estate, Tokersi Jivraj Road, Sewree, Bombay-400015, State of Maharashtra, India, a partnership firm. "Brief". October 1, 1980.

**EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS.**

Nos. 142613, 143520 and 143739—Class 1.

Nos. 142344 and 142894—Class 3.

**EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS.**

Nos. 138418, 138419, 138420, 138421, 138422 and 143739—Class 1.

Nos. 138369 and 138305—Class 3.

Nos. 138301, 138302, 138307, 138308, 138309 and 142344—Class 10.

**S. VEDARAMAN**  
*Controller-General of Patents, Designs  
and Trade Marks.*

